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**(54)IV TYPE COLLAGENASE MEASURING  
METHOD**

**(57)Abstract:**

**PURPOSE:** To detect the content of MMP (metalloproteinase)-2 and MMP-9 in oncocytes procuring a metastasizing function or serum of a cancer patient by immobilizing an antibody to the MMP-2 or MMP-9 to be brought into contact with an ecological sample preparation liquid which may contain the MMP-2 or MMP-9.

**CONSTITUTION:** An antibody to MMP-2 (E.C. 3, 4, 24, 24) or MMP-9 (E.C. 3, 4, 24, 35) is immobilized on a sensor section of a BIA-core biosensor and is brought into contact with an

ecological sample preparation liquid which may contain the anti-body and the MMP-2 or MMP-9 to measure the amount of the MMP-2 or MMP-9 bonded to the antibody by a surface plasmon resonance. Since there is a very high correlation between the activity of the MMP-2 or MMP-9 and the invasion or metastasis of oncocytes, and the content of the MMP-2 and -9 in the oncocytes procuring metastasizing function and serum of a cancer patient can be detected by an immunoassay using an antibody thereto, it is possible to be used for the inspection of the metastasis and malignancy of cancer.

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